

**WIRELESS NETWORK AND METHOD FOR PROVIDING ENHANCED
PACKET DATA SERVICES BETWEEN MOBILE STATIONS**

ABSTRACT OF THE DISCLOSURE

A method of terminating a packet data call at a target mobile station (MS) operating in the wireless network. The method comprises the steps of: i) receiving in a PDSN of the wireless network first packet data directed to the target MS; ii) identifying in the first packet data a mobile identification number of the target MS; iii) using the mobile identification number to retrieve an IP address of the target mobile station from a first database of the PDSN; and iv) forwarding the first packet data to the target mobile station using the retrieved IP address. The method further comprises the step of determining from a second database of the PDSN a target PCF unit and a target base station controller with which the target MS is currently in communication.